

# Stabilization of Lead Contamination in Tijuana Metales y Derivados



Waste & Enforcement  
Task Force  
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# Background

- Lead smelter & battery recycling facility
- Tijuana community at risk
- PROFEPA ordered closure in 1994
- CEC Factual Record in 2002
- Initiate cleanup in 2004



# Cleanup and Restoration Activities

- Implement remedial plan framework
  - Stabilize site
  - Characterize site & develop remedy
  - Select remedy & construction services
  - Implement remedy
- Expropriate/transfer ownership
- Define future land use
- Develop guidance



# Accomplishments

- Removed 2000 tons HW
- Land Expropriated



# Accomplishments

- Future land use compatible with industrial zoning
- Evaluating alternatives
  - Stabilization
  - Capping
  - excavation



# Accomplishments

- Sampling to support remedy
- EPA workshop to develop national Risk Assessment Guidance (MX City)
- Field sampling and risk assessment to support capacity building



# Future challenges

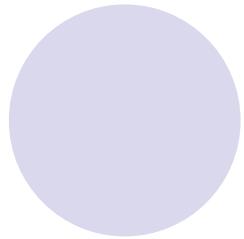
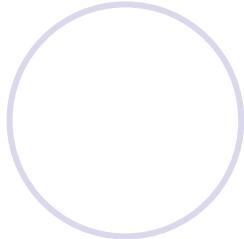
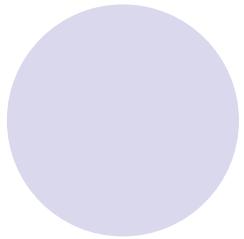
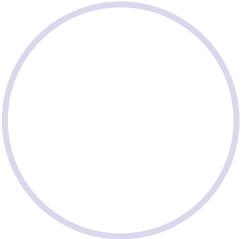
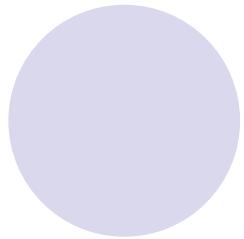
- Remove additional surface waste and building framework





## Future Challenges

- Funding
- Transparency w/ community
- Understanding risk management



- Questions?

# Montezuma Mine Contamination

## Affirm type of Border 2012 Program Support?

- Mexican Presidential Priority
- Past corrective action measures (divert Nacozari River drainage around tailings)
- Assessment in 2005
- 2005-WPF request for assistance



Vista panorámica de montaña de jale, la cual muestra la proximidad de los centros habitacionales de Nacozari de García, que ante la presencia de vientos y la erosión de éste material, provoca seria contaminación del aire por partículas.



Vista Sudoeste de la presa de jales principal

# Binational Support Resources



- 2005 EPA funding to support Mexico's assessment
- Coordination with University of Arizona Binational Center for Environmental Sciences and Toxicology

## Approach: U.S.-Mexico Binational Center

- To provide and support environmental science and toxicology training, research, and policy development.
- To facilitate a binational dialogue between investigators and stakeholders concerning risk assessment and remediation problems.

# Update on US-Mexico Binational Center Activities: Specialized Workshop

**Primer Aviso: Taller en Hermosillo**

El destino ambiental, la remediación y los efectos de los metales pesados y del arsénico en la salud humana en la región fronteriza de Sonora y Arizona

7 al 9 de diciembre de 2005 [Hermosillo, Sonora](#)

Universidad de Sonora

- Finalizing logistics; collaborative organizational committee
- Interest by Mexican governmental officials, researchers, and the Governor of Sonora
- Mesh of research, Environmental Science and Toxicology

# Role for Border 2012 Partners

- Actively participate with US-Mexico Binational Center
- Assign Technical Experts to collaborate with Mexico on mining issues
- Other recommendations?